

## CLAIMS

1. A flow through cell for use in a spectrophotometer for analysis of dissolved chemical substances in a flowing liquid stream, comprising
  - 5 a plurality of body members including an intermediate body member located between two other body members, the plurality of body members being clamped together and providing a small volume flow through passage,  
wherein a part of the flow through passage comprises a hole through the intermediate body member together with a liquid inlet region at one end of the  
10 hole and a liquid outlet region at the other end of the hole,  
wherein the two other body members are each associated with an optically transparent window aligned with a respective end of the hole through the intermediate body member thereby providing an optical pathway through said part of the flow through passage,  
15 wherein the liquid inlet and liquid outlet regions are provided by respectively, a portion of the flow through passage through which liquid flows into or out of a said region substantially immediately adjacent the optically transparent window transversely of the direction of the hole.
- 20 2. A flow through cell as claimed in claim 1 including a resilient sealing gasket located between facing surfaces of the intermediate body member and, respectively, each of the two other body members, wherein each gasket includes a gallery which provides said portion of the flow through passage.
- 25 3. A flow through cell as claimed in claim 2 wherein the gallery in the gasket on an inlet side of the flow through passage is in the form generally of a spiral.
4. A flow through cell as claimed in claim 1 wherein each of said other two body members includes a gallery which provides said portion of the flow  
30 through passage.
5. A flow through cell as claimed in claim 4 wherein at least the intermediate body member, or at least each of the other two body members is resilient to provide for sealing contact between adjacent body members.

6. A flow through cell as claimed in any one of claims 1 to 5 wherein the optically transparent window associated with each of the other two body members is a window assembly sealingly mounted within a hole in a body member.

7. A flow through cell as claimed in any one of claims 1 to 5 wherein the optically transparent window associated with each of the other two body members is provided by respectively a transparent plate sandwiched between the intermediate body member and one of the other body members.

8. A flow through cell as claimed in any one of claims 1 to 7 wherein the body members are of rectangular parallelepiped shape.

9. A flow through cell as claimed in any one of claims 1 to 8 wherein the body members are clamped together by screw fasteners.

10. A flow through cell as claimed in claim 9 wherein the screw fasteners pass through holes in one of the other body members and the intermediate body member and engage in threaded holes in the other body member.

11. A flow through cell as claimed in any one of claims 1 to 10 wherein the flow through passage includes another part located between further optically transparent windows associated with the two other body members thereby defining a second optical pathway.

12. A flow through cell as claimed in claim 11 wherein the second optical pathway is shorter than the first defined optical pathway.

13. A flow through cell as claimed in any one of claims 1 to 10 wherein the body members also provide an optical pathway separated from the flow through passage for a reference beam to be passed through the cell.